CALIFORNIA GEOMETRY · UNIT 2 · 5 QUESTIONS

Similarity and Right Triangle Trigonometry — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Family portrait of parents with their two young children. Two similar triangles have corresponding heights 6 and 18. The ratio of their areas is**



A 1:3

B 3:1

C 1:6

D 1:9

Understand It with Pulse | Flag a mistake

2 **A right triangle has hypotenuse 25 and one leg 15. The other leg is**

- A 10
- B 40
- C 20
- D 30

Understand It with Pulse | Flag a mistake

3 **In a 45 45 90 triangle the hypotenuse is $10\sqrt{2}$. A leg is**

- A $10\sqrt{3}$
- B 10
- C 20
- D $5\sqrt{2}$

Understand It with Pulse | Flag a mistake

4 In a 30 60 90 triangle the hypotenuse is 14. The longer leg is

- A 7
- B $14\sqrt{3}$
- C $7\sqrt{2}$
- D $7\sqrt{3}$

Understand It with Pulse | Flag a mistake

5 If $\cos x = \frac{1}{2}$ and x is acute, then x is

- A 90°
- B 30°
- C 60°
- D 45°

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. C
3. B
4. D
5. C

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